

Title (en)
COFFEE MELANOIDIN NANOPARTICLES AND NANOFIBERS

Title (de)
KAFFEEMELANOIDIN-NANOPARTIKEL UND NANOFASERN

Title (fr)
NANOPARTICULES ET NANOFIBRES DE MÉLANOÏDINE DE CAFÉ

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Abstract (en)
The invention relates to a process for preparing a melanoidin product, the process comprising:a) an extraction step in which coffee grounds are treated with an extraction agent with a pH value greater than 7 to extract a melanoidin-containing solute in a fluid phase of the extraction agent;b) a first separation step in which the fluid phase is separated from the coffee grounds;c) a precipitation step in which the fluid phase is contacted (i) with an acid to obtain an acidic mixture with a pH value lower than 4 or (ii) with an organic phase separation agent and with an acid to obtain a mixture with a pH value in the range of from 4 to 8, thereby forming precipitates containing melanoidin; andd) a second separation step in which the formed precipitates are separated from the acidic mixture.The invention further relates to melanoidin nanoparticles and melanoidin nanofibers obtained from coffee grounds.

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